



उत्पाद मैनुअल
भा. मा. 3843: 1995 के अनुसार
इस्पात के पिछले पल्ले के कब्जों लिए
दस्तावेज संख्या-पी एम/आई एस 3843/1/दिसंबर 2022

भारतीय मानक ब्यूरो की स्कीम-I (अनुरूपता मूल्यांकन) विनियम, 2018 के तहत यह उत्पाद मैनुअल प्रमाणीकरण के प्रचालन में रीति और पारिश्रिता की सुसंगतता सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों और लाइसेंसों द्वारा संदर्भ सामग्री के रूप में उपयोग किया जाएगा। बीआईएस प्रमाणीकरण लाइसेंस/प्रमाणपत्र प्राप्त करने के इच्छुक भावी आवेदकों द्वारा भी इस दस्तावेज का उपयोग किया जा सकता है।

PRODUCT MANUAL FOR
STEEL BACK FLAP HINGES
ACCORDING to IS 3843:1995

Document No.-PM/IS 3843/1/ December 2022

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification licence/certificate.

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1.	Product	:	IS 3843: 1995
	Title	:	Steel Back Flap Hinges
	No. of Amendments	:	Nil
2.	Sampling Guidelines:		
a)	Raw material	:	Flap- Permissible Grades of IS 2062, IS 1079 and IS 513, as per Cl. 4 of IS 3843: 1995 Wire- Grade H/2 or H/4 of IS 280
b)	Grouping guidelines	:	Please refer ANNEX –A
c)	Sample Size	:	6 Nos.
3.	List of Test Equipment	:	Please refer ANNEX –B
4.	Scheme of Inspection and Testing	:	Please refer ANNEX –C
5.	Possible tests in a day	:	All tests
6.	Scope of the Licence:	:	Licence is granted to use Standard Mark as per IS 3843:1995 with the following scope:
	Name of product	:	Steel Back Flap Hinges
	Type	:	Light weight Hinges/ Heavy weight Hinges
	Sizes	:	Up to and including....mm

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ANNEX A

Grouping Guidelines

1. Steel Back Plate Hinges as per IS 3843: 1995 are classified in to different varieties based on following:

(A)Types :

- Light weight Hinges
- Heavy weight Hinges

(B) Sizes : Size designated by length (A) of the hinge as per Table 1 and table 2 of IS 3843:1995

2. Considering the above, one sample from each type of Steel Back Plate Hinges having minimum and maximum size shall be drawn to cover all the sizes of Hinges in that type tested.

3. The Firm shall declare the varieties of Steel Back Plate Hinges they intend to cover in the Licence. The Scope of Licence may be restricted based on the Manufacturing and Testing capabilities of the Manufacturer.

4. During the operation of the Licence, BO shall ensure that all the types and sizes covered in the Licence are tested in rotation, to the extent possible.

ANNEX B**List of Test Equipment**

Major test equipment required to test as per the Indian Standard

S.no.	Tests used in with Clause Reference		Test Equipment
	Cl. No.	Test	
1.	5, 6, Table 1, Table 2	Dimensions	Vernier Caliper, Micrometer

The above list is indicative only and may not be treated as exhaustive

ANNEX C

Scheme of Inspection and Testing

1. LABORATORY - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

1.1 The manufacturer shall prepare a calibration plan for the test equipments.

2. TEST RECORDS – The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. LABELLING AND MARKING – As per the requirements of IS 3843: 1995.

4. CONTROL UNIT- All Hinges of same Type and Size, manufactured under similar conditions from same consignment of raw material in a day shall constitute a control unit.

5. LEVELS OF CONTROL - The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

5.1 All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard Mark.

6. REJECTIONS – Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016.

TABLE 1

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
4	Material	4, Table 3	IS 3843	S	One	Each Consignment	No further testing is required if material is received with test certificate or is ISI Marked. Material as per IS 2062, IS 1079 and IS 513 are under mandatory BIS Certification and manufacturer shall ensure that material used is ISI Marked and received with test certificate.
5	Dimensions	5, Table 2 to Table 12	IS 3843	R	One piece from each hour of production		--
6	Manufacture	6.1, 6.2, 6.3, 6.4	IS 3843	R	Firm should exercise adequate control so that whole production should meet the requirements		
7	Finish	7	IS 3843	R			

Note-1: Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

Note-2: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by BO Head.